



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 10

1200 Sixth Avenue, Suite 900  
Seattle, Washington 98101-3140

September 7, 2012

Karen Morrissey  
Director, Real Estate  
Alaska Railroad Corporation  
P. O. Box 107500  
Anchorage, Alaska 99510-7500

Dear Ms. Morrissey:

The U.S. Environmental Protection Agency Region 10 (EPA), through its contractor, Ecology and Environment, Inc. (E&E), collected sediment samples from Alaska Railroad Corporation property along Ship Creek on July 10, 2012. The samples were collected in relation to EPA's Site Investigation (SI) of the 4<sup>th</sup> and Gamble Parking Lot site located.

The samples were analyzed for volatile organic compounds. Enclosed is a data table summarizing the results from the samples.

EPA appreciates your cooperation during this sampling event. If you have any questions, please feel free to contact me at (206) 553-6396 or [perkins.brandon@epa.gov](mailto:perkins.brandon@epa.gov)

Sincerely,

Brandon Perkins  
Site Assessment Manager

Enclosures

cc: site file  
Russell Grandel

USEPA SF  
  
1397810

**Ship Creek Analytical Results**

**Owner:** Alaska Railroad Corporation  
**Contact:** Russell Grandel  
**Phone:** (907) 265-2429  
**Email:** [gand@alaskarail.com](mailto:gand@alaskarail.com)

**Property Address:** Alaska Railroad Anchorage Terminal Reserve

**Sample Date:** July, 2012  
**Sample Media / Location:** Sediment / Various Locations on Ship Creek  
**Sample Analysis:** Volatile Organic Compounds

Location ID	BK01SD	SC01SD	SC02SD	SC03SD	SC04SD	SC05SD	SC06SD	SC07SD	SC08SD	SC09SD
EPA Sample Number	12284726	12284727	12284728	12284729	12284730	12284731	12284732	12284733	12284734	12284735
CLP Sample Number	JRZD3	JRZD4	JRZD5	JRZD6	JRZD7	JRZD8	JRZD9	JRZE0	JRZE1	JRZE2
<b>Description</b>										Ship Creek
<b>Volatile Organic Compounds (ug/kg)</b>										
Dichlorodifluoromethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Chloromethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Vinyl chloride	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Bromomethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Chloroethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Trichlorofluoromethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,1-Dichloroethene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,1,2-Trichloro-1,2,2-trifluoroethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Acetone	19	U	38	U	14	U	11	U	120	U
Carbon Disulfide	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Methyl acetate	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Methylene chloride	9.5	U	9.5	U	6.8	U	5.6	U	18	U
trans-1,2-Dichloroethene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Methyl tert-butyl ether	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,1-Dichloroethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
cis-1,2-Dichloroethene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
2-Butanone	19	U	12	JO	14	U	11	U	35	U
Bromochloromethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Chloroform	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,1,1-Trichloroethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Cyclohexane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Carbon tetrachloride	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Benzene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,2-Dichloroethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,4-Dioxane	..	R	--	R	--	R	--	R	--	R
Trichloroethene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Methylcyclohexane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,2-Dichloropropane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Bromodichloromethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
cis-1,3-Dichloropropene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
4-Methyl-2-pentanone	19	U	19	U	14	U	11	U	35	U
Toluene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
trans-1,3-Dichloropropene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,1,2-Trichloroethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Tetrachloroethene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
2-Hexanone	19	U	19	U	14	U	11	U	35	U
Dibromochloromethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,2-Dibromoethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Chlorobenzene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Ethybenzene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
o-Xylene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
m,p-Xylene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Styrene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Bromoform	9.5	U	9.5	U	6.8	U	5.6	U	18	U
Isopropylbenzene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,1,2-Tetrachloroethane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,3-Dichlorobenzene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,4-Dichlorobenzene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,2-Dichlorobenzene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,2-Dibromo-3-chloropropane	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,2,4-Trichlorobenzene	9.5	U	9.5	U	6.8	U	5.6	U	18	U
1,2,3-Trichlorobenzene	9.5	U	9.5	U	6.8	U	5.6	U	18	U

Key:

BK = Background

CLP = Contract Laboratory Program

CRQL = Contract Required Quantitation Limit.

EPA = United States Environmental Protection Agency.

ID = Identification.

J = The analyte was positively identified. The associated numerical value is an estimate.

μg/kg = Micrograms per kilogram.

Q = The analyte was positively identified. The associated numerical value is above the instrument detection limit but below the CRQL.

R = The data are unusable for all purposes.

SC = Ship Creek

SD = Sediment

U = The analyte was not detected at or above the associated value.

## Ship Creek Sample Locations

**Owner:** Alaska Railroad Corporation  
**Contact:** Russell Grandel  
**Phone:** (907) 265-2429  
**Email:** [gradelr@akrr.com](mailto:gradelr@akrr.com)

**Property Address:** Alaska Railroad Anchorage Terminal Reserve

**Sample Date:** July, 2012  
**Sample Media / Location:** Sediment / Various Locations on Ship Creek  
**Sample Analysis:** Volatile Organic Compounds

Location ID	North	West
SC01SD	61.223174	-149.877786
SC02SD	61.223129	-149.876706
SC03SD	61.223317	-149.875972
SC04SD	61.223251	-149.875137
SC05SD	61.223454	-149.873777
SC06SD	61.223701	-149.872782
SC07SD	61.223415	-149.871636
SC08SD	61.223334	-149.870339
SC09SD	61.223576	-149.869440
BK01SD	61.223981	-149.854833